FIG. 1

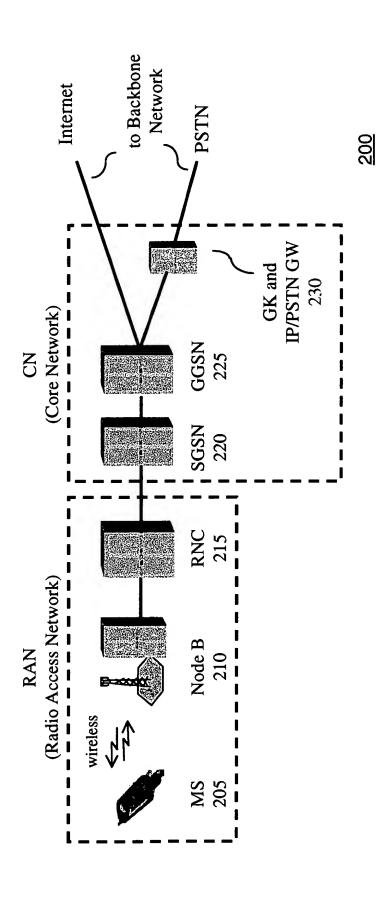


FIG. 2

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Prior Art

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	Octet 1	Octet 2	Octet 3	Octet 4	Octet 5	Octet 6	Octet 7	Octet 8	Octet 9	Octet 10	Octet 11	Octet 12	Octet 13
1	 ! ! ! !		SS	ass		neons					andling ity		
7			Reliability Class	Precedence Class	 put	of error SDU				r ratio	Traffic Handling Priority		
8	E	vice IE	Reliat	Preced	Mean Throughput	Delivery of erroneous SDU	ze	uplink	ownlink	SDU error ratio		uplink	ownlink
4	ervice]	y of Sei	S	0 spare	Mea	Order	SDU siz	ate for	te for d			rate for	te for d
5	Quality of Service IEI	Length of Quality of Service IE	Delay Class	} 		Delivery Order	Maximum SDU size	Maximum Bit Rate for uplink	Maximum Bit Rate for downlink		r delay	Guaranteed bit rate for uplink	Guaranteed bit rate for downlink
9	ñÔ	Length	De	Peak Throughput	0	SS	M	Maxim	Maximu	I BER	Transfer delay	Guarar	Guarante
7	 		0	eak Thr	0 spare	Traffic Class				Residual BER			
∞	 		0 spare	Pe	0	Tra							
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FIG. 3

Packet Data Protocol (PDP) Context Activation Procedure

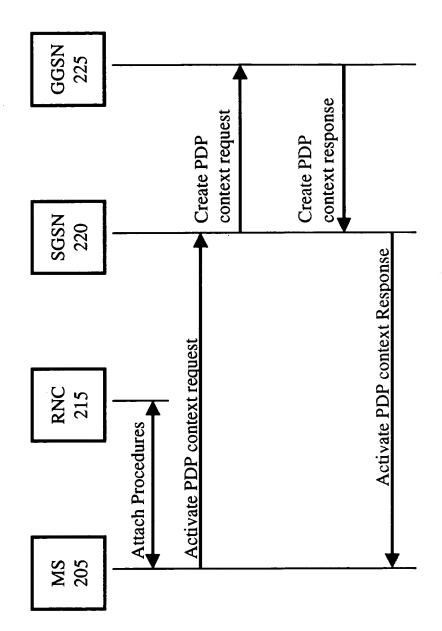


FIG. 4

	Octet 1	Octet 2	Octet 3	Octet 4	Octet 5	Octet 6	Octet 7	Octet 8	Octet 9	Octet 10	Octet 11	Octet 12	Octet 13	Octet 14	Octet 15	Octet 16	Octet 17	Octet 18
2 1			Reliability Class	Precedence Class	hput	Downlink Delivery of erroneous SDU				Downlink SDU error ratio	Traffic Handling Priority	r uplink	downlink	r uplink	downlink	Uplink Delivery	Uplink SDU error ratio	Spare
ю	IEI	rvice IE	Reli	Prec	Mean Throughput	j 	Ì	uplink	lownlink	wnlink SI		oit rate for	t rate for	oit rate for	t rate for o	Upl		
4	Quality of Service IEI	Length of Quality of Service IE	lass	0 Spare	Mea	Downlink Deliyery Order	Maximum SDU size	Maximum Bit Rate for uplink	Maximum Bit Rate for downlink	Dov	delay	Maximum Desired Guaranteed bit rate for uplink	Maximum Desired Guaranteed bit rate for downlink	Minimum Desired Guaranteed bit rate for uplink	Minimum Desired Guaranteed bit rate for downlink	Uplink Delivery Order	Ū	lelay
S	Quality o	gth of Qua	Delay Class	put		Do Deliy	Maximu	ximum B	imum Bit	al BER	Downlink Transfer delay	esired Gu	sired Guar	esired Gu	ired Guar	J. Jeliv	BER	Uplink Transfer delay
9		Len	 	rough	R	k ass		Ma	Max	Residu	wnlink	um D	m Des	um D	m Des	336	sidual	plink '
7	 		0 spare	Peak Throughput	T	Downlink Traffic Class				Downlink Residual BER	Do	Maxim	Maximu	Minim	Minimu	Uplink Traffic Class	Uplink Residual BER	n
∞	! ! !		s 0		Q					Q								
Asymmetric QoS IE	400									- 								

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FIG. 5

Traffic Class Field Value	000 Subscribed traffic class/Reserved	001 Conversational	O10 Streaming	011 Interactive	100 Background	101 Reserved	110 Reserved	111 Reserved	000 Subscribed traffic class/Reserved	001 Conversational	O10 Streaming	011 Interactive	100 Background	101 First try Streaming, then Interactive	110 First try Interactive, then Background	111 Charten Character than Latence than Dadraman
D bit	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	•

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	Octet 1	Octet 2	Octet 3	Octet 4	Octet 5	Octet 6	Octet 7	Octet 8	Octet 9	Octet 10	Octet 11	Octet 12	Octet 13	Octet 14	Octet 15	Octet 16	Octet 17	Octet 18
2 1			Reliability Class	Precedence Class	hput	Downlink Delivery of erroneous SDU				Downlink SDU error ratio	Traffic Handling Priority	uplink	lownlink	uplink	lownlink	Uplink Delivery	et 1OLETOBEOUS AUU Uplink SDU error ratio	Spare
8	EI	rvice IE	Reli	Prec	Mean Throughput	Down of en	}	uplink	ownlink	vnlink SL		it rate for	rate for	it rate for	rate for c	Upli	in	
4	Quality of Service IEI	Length of Quality of Service IE	ass	0 spare	Mea	Downlink Delivery Order	Maximum SDU size	Maximum Bit Rate for uplink	Maximum Bit Rate for downlink	Dov	delay	Maximum Desired Guaranteed bit rate for uplink	Maximum Desired Guaranteed bit rate for downlink	Minimum Desired Guaranteed bit rate for uplink	Minimum Desired Guaranteed bit rate for downlink	Uplink	R Upi	
S	Juality of	h of Qua	Delay Class	ut		Dov	Maximur	imum Bi	num Bit 1	I BER	Downlink Transfer delay	sired Gua	red Guara	sired Gua	red Guara	'n.	J.Deuye 3er	Uplink Transfer delay
9		Lengt		Peak Throughput	2	nk Jass		Max	Maxin	Residua	ownlink '	mum De	um Desi	mum Des	um Desi	K	<u>Lrame Class</u> Uplink Residual BER	Uplink T
7	 		0 spare	Peak T	T	Downlink Traffic Class				Downlink Residual BER	D	Maxi	Maxim	Mini	Minim	Uplink	Traffic Class Uplink Resid	
∞	<u>.</u>		Ω		Q	 											<u> </u> 	
Asymmetric QoS IE	200																	

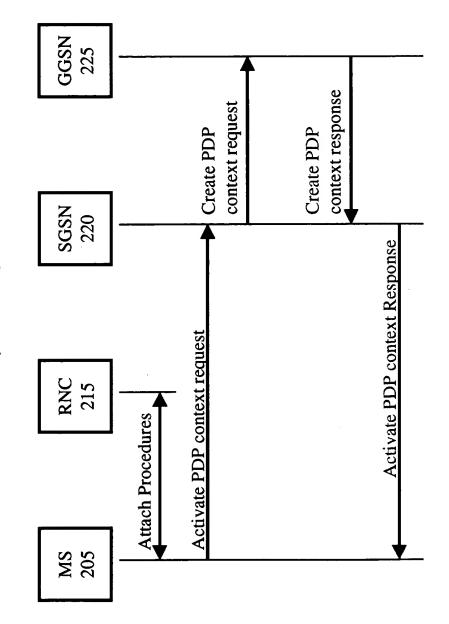
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FIG. 7

U bit	D bit	Traffic Class Field Value	Traffic Class
0	0	000	Subscribed traffic class/Reserved
0	0	001	Conversational
0	0	010	Streaming
0	0	011	Interactive
0	0	100	Background
0	0	101	Reserved
0	0	110	Reserved
0	0	111	Reserved
1	0	101	Interactive to Streaming
1	0	110	Best Effort to Interactive
1	0	111	Best Effort to Streaming, else to Interactive

FIG. 8

Packet Data Protocol (PDP) Context Activation Procedure with asymmetric QoS IE



Asymmetric QoS negotiation



